

Message Text

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ACTION SS-25

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EXDIS

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TAGS: US,UR, PARM, OEXD

TAGS: TTBT/PNE NEGOTIATIONS- SUMMARY OF OCT 23 PLENARY

PNE MESSAGE NUMBER THIRTY

FOR SECRETARY'S PARTY

1. MEETING BEGAN AT 1515 HOURS WITH MOROKHOV AS CHAIRMAN. AFTER BRIEF EXCHANGE OF PLEASANTIES MOROKHOV INTRODUCED DR. MYASNIKOV WHO MADE A PRESENTATION OF THE TANGE OF MAXIMUM AND MINIMUM YIELD FOR VARIOUS APPLICATIONS OF PNES.

2. INTRODUCTORY REMARKS OF DR. MYASNIKOV INCLUDED FOLLOWING STATEMENTS: "THE PURPOSE OF MY PRESENTATION IS TO SHOW BRACKETS OF YIELD NECESSARY FOR THE BULK OF PNES. ALSO TO SHOW WHICH ONES EXCEED YIELD THRESHOLD OF TREATY OF JULY 3. THE GREAT VARIETY OF NATURAL, ECONOMIC AND GEOLOGICAL FACTORS DETERMINE THE NEED FOR A WIDE RANGE OF YIELDS FOR UNDERGROUND PNES. THE MINIMUM YIELD IS BASED ON ECONOMIC EXPLOITATION OF THE APPLICATION OF UNDERGROUND NUCLEAR EXPLOSIVES. THE MAXIMUM YIELD OF A SINGLE OR GROUP EXPLOSION REQUIRES PROVISION FOR SAFETY WHICH CAN BECOME DETERMINING FACTOR." THE RANGE OF YIELDS FOR VARIOUS APPLICATIONS WAS PRESENTED AS FOLLOWS:

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COTAINED:

USE	MINIMUM	MAXIMUM
STIMULATE GAS AND OIL	2-5 KT	30-100KT
CREATE UNDERGROUND STORAGE CAVITIES FOR GAS CONDENSATES AND OIL	5-10 KT	20-50 KT
CREATE UNDERGROUND CAVITIES FOR DISPOSAL OF BIOLOGICALLY HARMFUL WASTES	2-5 KT	30-70 KT
PUT OUT OIL AND GAS GUSHERS	3-8 KT	20-50 KT
FRAGMENT ORE AND ROCK FOR UNDERGROUND MINING TO INCLUDE PREPARATION FOR LEACHING	3-5 KT	30-50 KT
INVESTIGATE DEEP STRUCTURES OF THE EARTH	2-8 KT	15-40 KT
FRAGMENT ROCK AT GREAT DEPTH FOR GEOTHERMAL APPLICATIONS	20-50 KT	100-300 KT

NATURALLY SOME CASES COULD ARISE WHERE YIELD REQUIREMENTS ARE OUTSIDE THE ABOVE LIMITS. THE LAST APPLICATION MENTIONED DOES NOT YET FIND INDUSTRIAL APPLICATION IN THE USSR. WE DO NOT ANTICIPATE YIELDS GREATER THAN 100 KT FOR GEOTHERMALS IN THE NEXT DECADE.

CRATERING:

USE	MINIMUM	MAXIMUM
CREATION OF SEA AND RIVER CANALS	25-50 KT	200-500 KT
REMOVAL OF OVERBURDEN OUTSIDE THE BOUNDARY OF QUARRIES AND TRANSPORT TRENCHES.	15-50 KT	500-1000 KT
CREATION OF DAM AND WATER OVERFLOW STORAGE	5-10 KT	50-150 KT
CREATION OF TRENCH CUTS AND BANKS FOR ROAD CONSTRUCTION	5-10 KT	100-150 KT
FRAGMENTATION OF ROCK WITH HELP OF LOOSENING EXPLOSION INTERMEDIATE CONTAINED EXPLOSION - RETARC)	5-10 KT	30-100 KT

MYASNIKOV STATED THAT OF COURSE THERE WERE OTHER USES OUTSIDE OF THESE LIMITS AND THEY WOULD LIKE TO HAVE AMERICAN VIEW.

3. UNDER QUESTIONING MYASNIKOV STATED THAT THE 200-500
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KT MAXIMUM LIMIT FOR CRATERING APPLIES TO THE TOTAL YIELD OF A GROUP EXPLOSION. MOROKHOV THEN STATED THAT THE NUMBER OF EXPLOSIONS OF ALL KINS WITH YIELD EXCEEDING THE THRESHOLD IS NOT BIG AND THERE ARE NOT MANY PROJECTS OF THAT SORT.

4. AFTER THIS PRESENTATION STOESSEL MADE A STATEMENT (SEPTEL).

5. AFTER THE PRESENTATION MOROKHOV THANKED THE AMERICAN SIDE AND STATED THAT PERHAPS HE DID NOT PUT THE EMPHASIS IN THE RIGHT PLACE YESTERDAY IN HIS PRESENTATION AND THAT HE BELIEVED BOTH SIDES NOW HAD SIMILAR UNDERSTANDING OF OUR TASK. HE ALSO SAID HE ANTICIPATED AN INTERESTING REPORT BY DR. ROMNEY.

6. ROMNEY THEN MADE STATEMENT (SEPTTEL).

7. MYASNIKOV THEN ASKED ROMNEY WHAT KINDS OF INFORMATION WOULD BE APPROPRIATE AND NECESSARY FOR VERIFICATION THAT WOULD HELP YOU IN YOUR WORK. RESPONSE WAS WE WOULD DISCUSS LATER.

8. MOROKHOV IN PARTIAL RESPONSE TO QUESTIONS IN ROMNEY STATEMENT, REMARKED THAT IN ALL CASES WHERE THE SIDE DETONATING THE EXPLOSION BELIEVES THAT THE VERIFYING SIDE MIGHT ASSESS THE EXPLOSION AS EXCEEDING 150 KT -- THE DETONATING SIDE SHOULD PROVIDE ADDITIONAL INFORMATION CONCERNING THE SHOT IN ADVANCE.

9. STOESEL THEN ASKED IF IT IS CORRECT THAT THE SOVIET UNION WOULD PROVIDE NO DATA FOR SHOTS LESS THAN 150 KT EXCEPT IN EXCEPTIONAL CIRCUMSTANCES. MOROKHOV THEN STATED THAT THIS WAS NOT THEIR SUGGESTION AND THEY DID NOT TAKE AS THEIR POSITION THAT NO INFORMATION IS NEEDED. HOWEVER, THE AMOUNT OF INFORMATION WILL DEPEND ON THE DEGREE THAT THE MONITORING SIDE CAN MAKE A CORRECT ASSESSMENT OF THE YIELD.

10. THE MEETING CONCLUDED WITH QUESTIONS FROM FLEMING TO MYASNIKOV CONCERNING THE YIELD OF THE SHOT THAT FORMED A CAVITY IN SALT.

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11. NEXT MEETING FRIDAY 25 OCT SUBJECT TO CONFIRMATION THURSDAY.
STOESEL

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